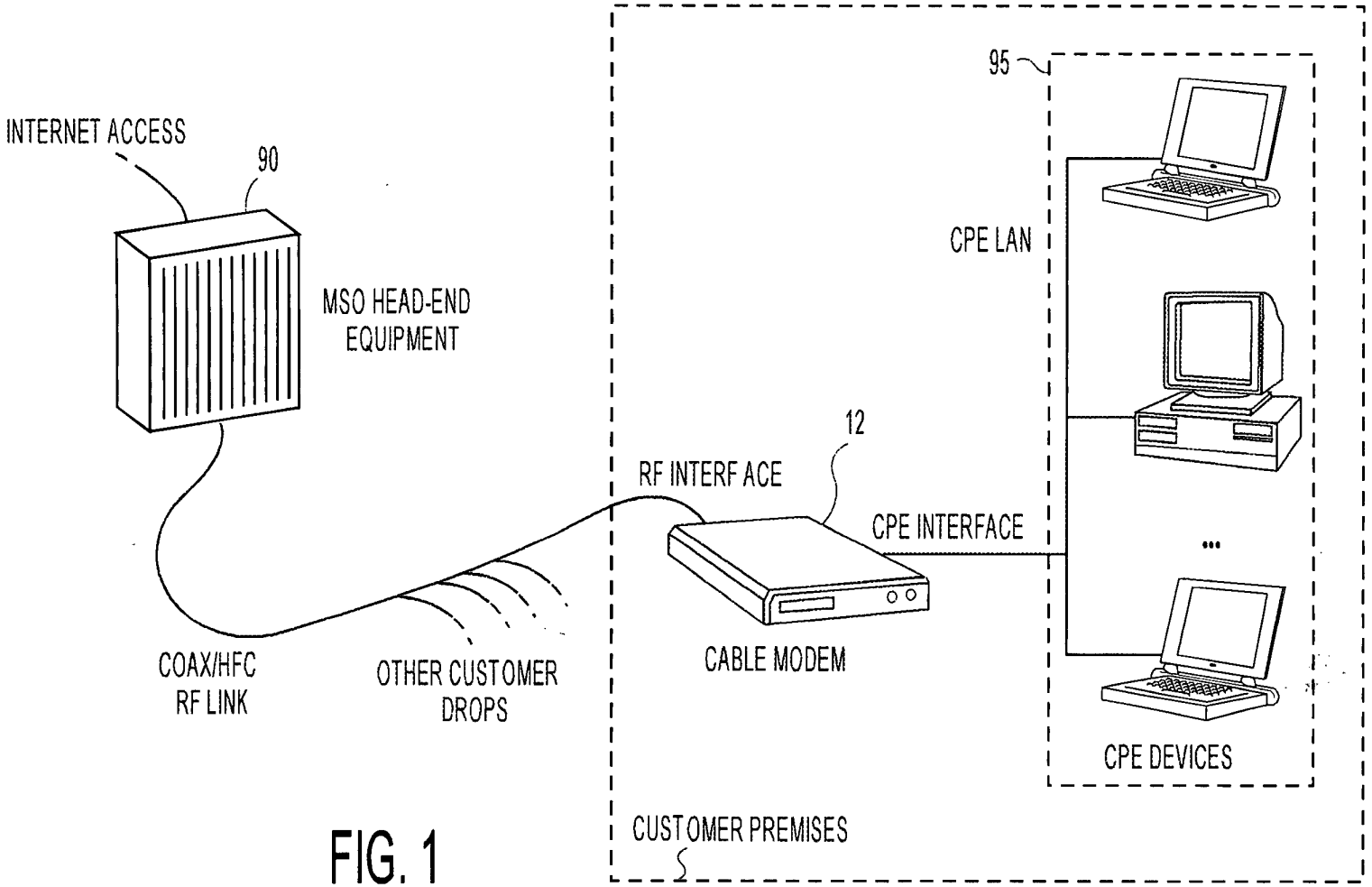

INTERNET ACCESS
90
MSO HEAD-END EQUIPMENT
95
CPE LAN
12
RF INTERF ACE
CPE INTERFACE
COAX/HFC RF LINK
OTHER CUSTOMER DROPS
CABLE MODEM
CPE DEVICES
CUSTOMER PREMISES

FIG. 1

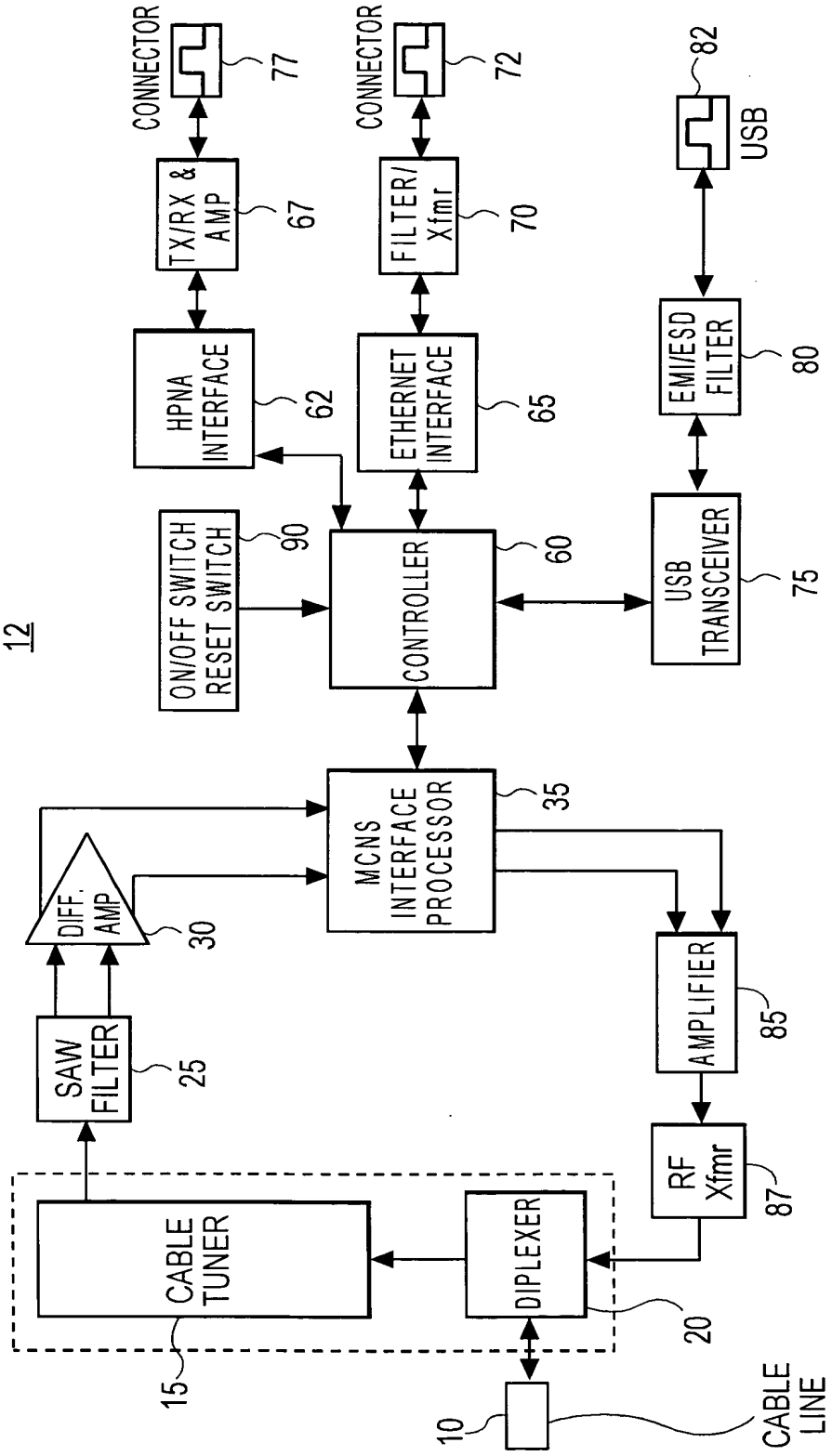
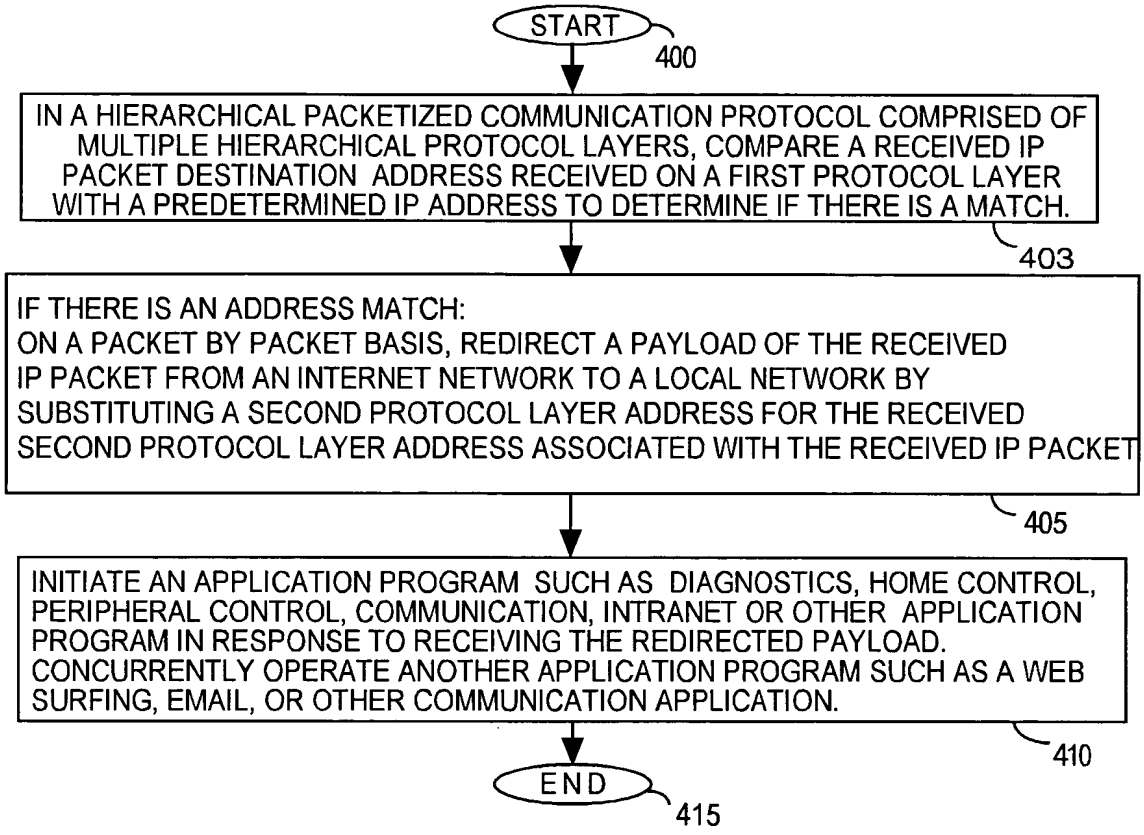

12
CONNECTOR
77
CONNECTOR
72
82
USB
TX/RX & AMP
67
FILTER/ Xfmr
70
HPNA INTERFACE
62
ETHERNET INTERFACE
65
EMI/ESD FILTER
80
ON/OFF SWITCH
RESET SWITCH
90
CONTROLLER
60
USB TRANSCEIVER
75
MCNS INTERFACE PROCESSOR
35
DIFF. AMP
30
SAW FILTER
25
AMPLIFIER
85
RF Xfmr
87
CABLE TUNER
DIPLEXER
20
15
10
CABLE LINE

FIG. 2

FIGURE 3



09/453,960 - 082300

00E280"7EEhh960

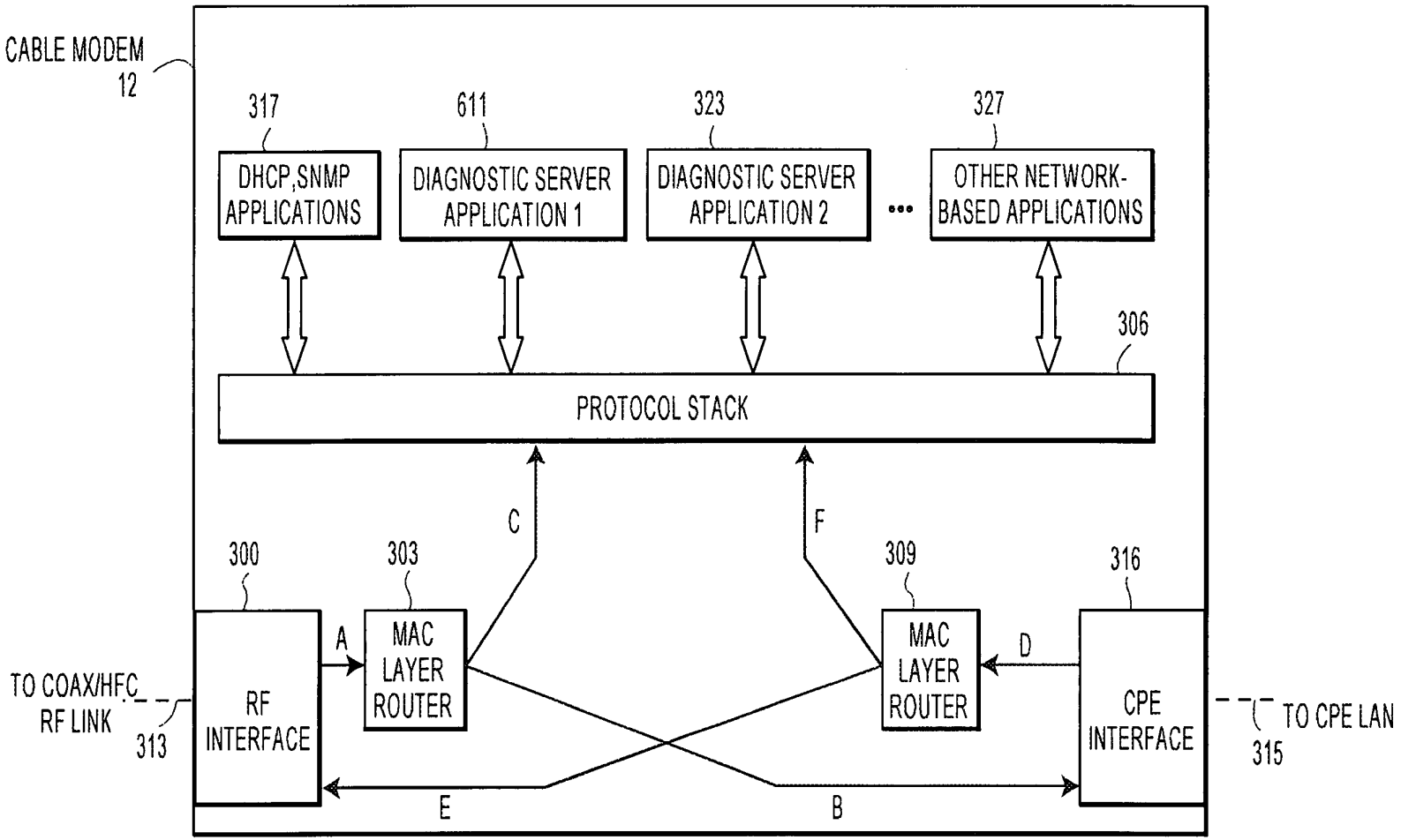


FIG. 4

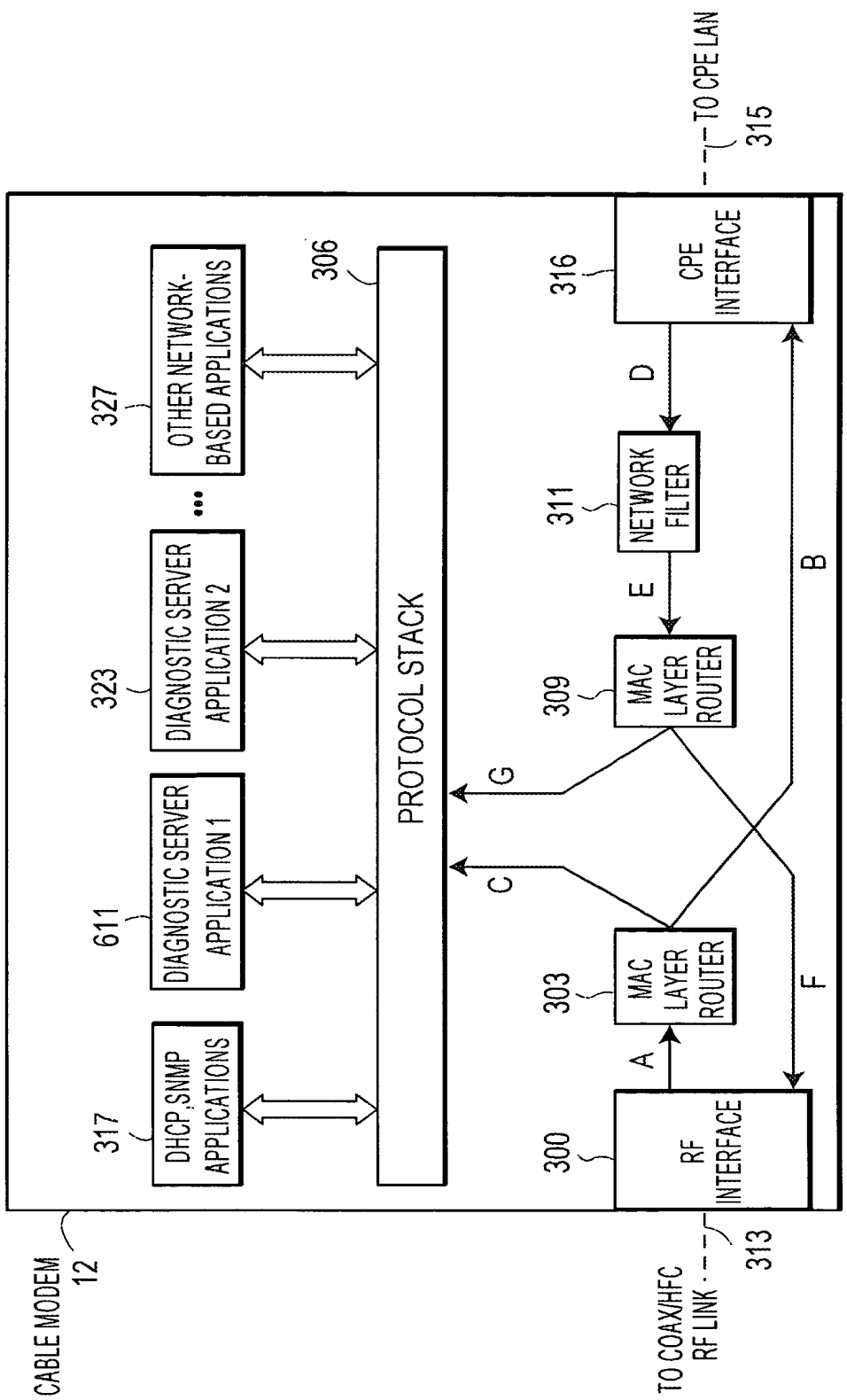

CABLE MODEM
12
TO COAX/HFC
RF LINK
313
TO CPE LAN
315
317
DHCP,SNMP
APPLICATIONS
611
DIAGNOSTIC SERVER
APPLICATION 1
323
DIAGNOSTIC SERVER
APPLICATION 2
327
OTHER NETWORK-
BASED APPLICATIONS
306
PROTOCOL STACK
300
RF
INTERFACE
303
MAC
LAYER
ROUTER
309
MAC
LAYER
ROUTER
311
NETWORK
FILTER
316
CPE
INTERFACE
A
B
C
D
E
F
G

FIG. 5

09E280" 7E3+h960

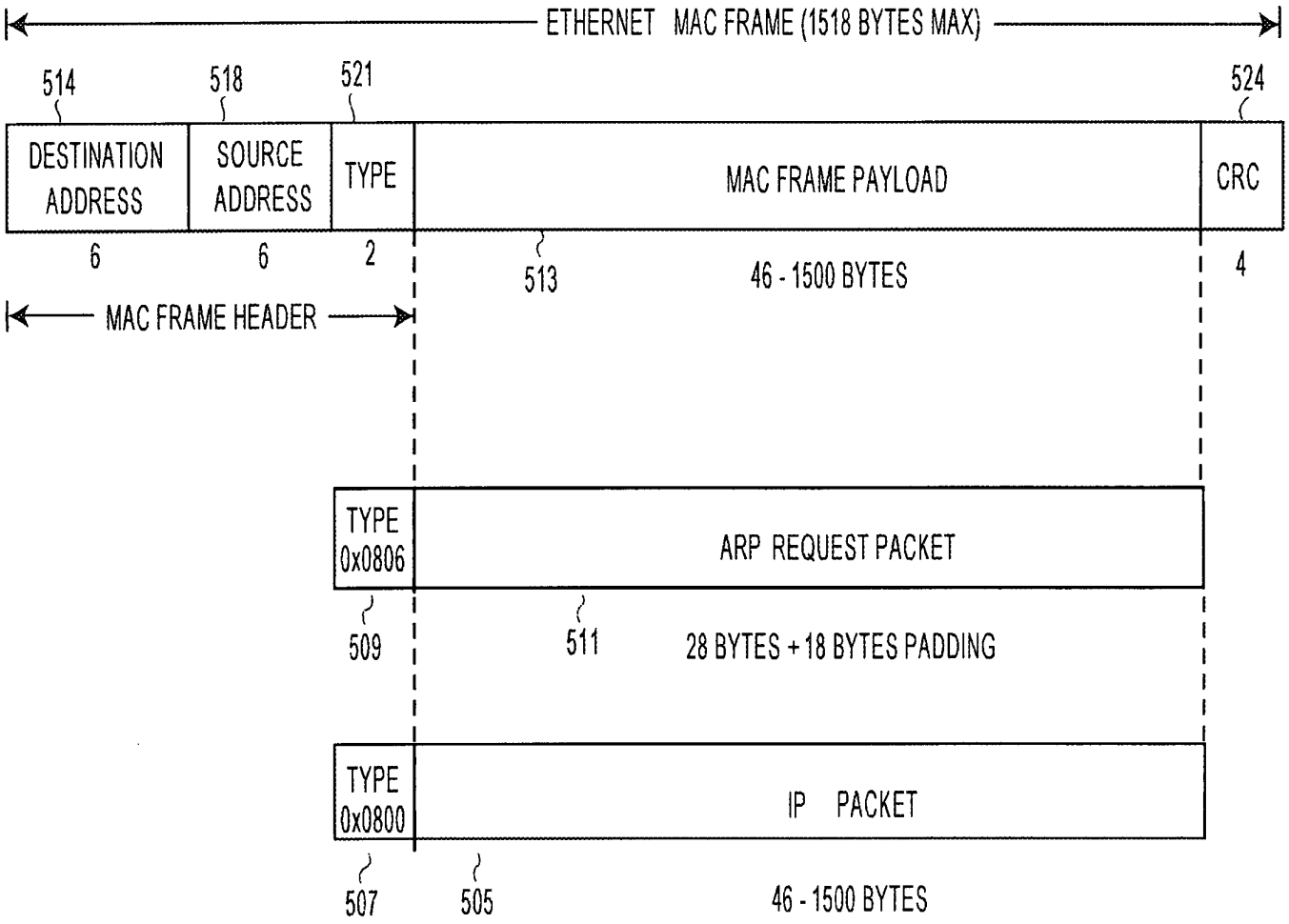


FIG. 6

FIG. 6A

FIG. 6B

00E280" 7E3hh960

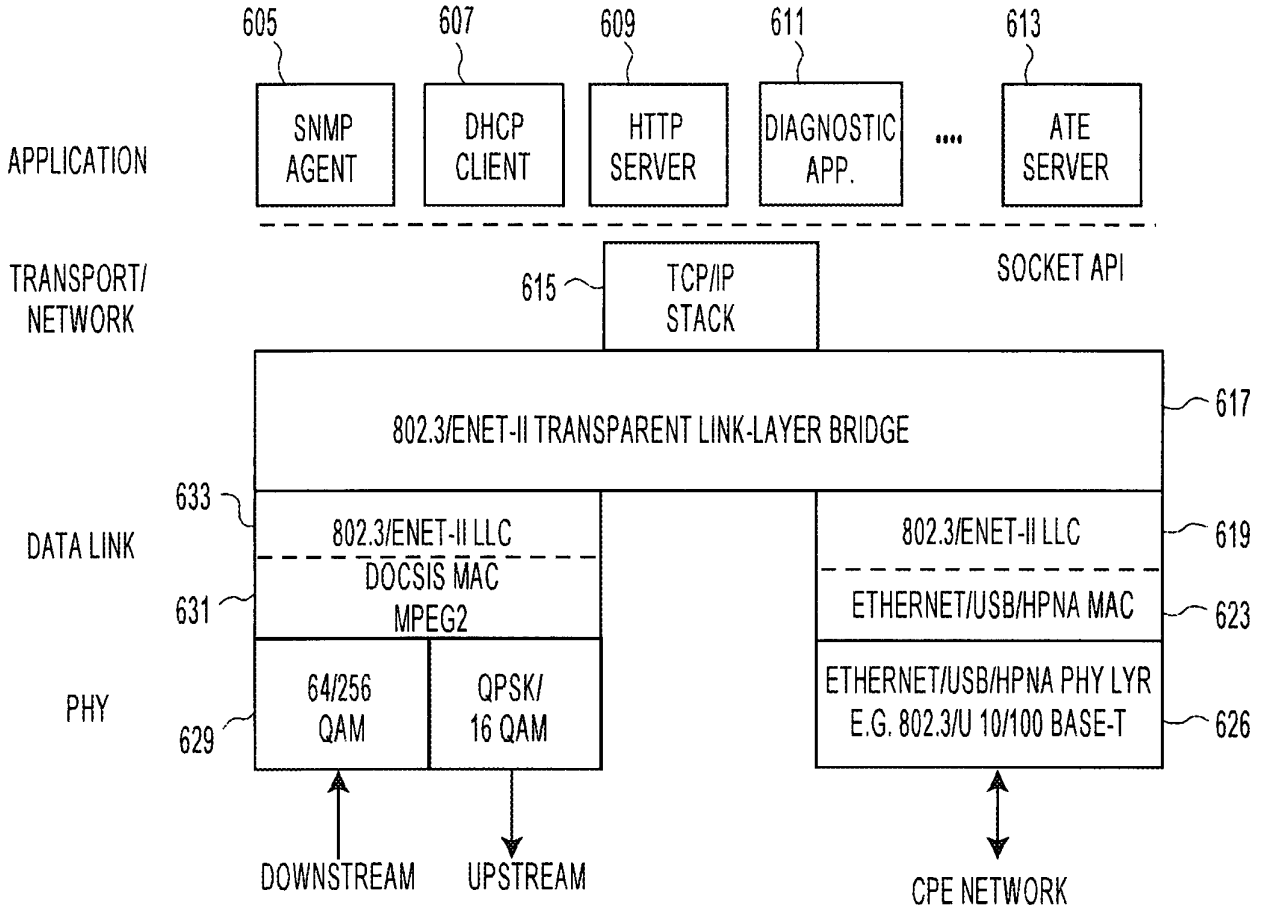


FIG. 7